PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 12177772/VPA	FOR FURTHER ACTION	(F. DOTIGA (222)				
International application No.	International filing date (da	iy/month/year)	(Earliest) Priority Date (day/month/year)			
PCT/AU03/01133	3 September 2003		3 September 2002			
Applicant BIOPROSPECT LIMITED e	t al					
This international search report has been pre Article 18. A copy is being transmitted to the	e International Bureau.	arching Authority and i	s transmitted to the applicant according to			
This international search report consists of a	total of 6 sheets.		•			
It is also accompanied by a co	by of each prior art document of	cited in this report.				
Basis of the report	· · · · · · · · · · · · · · · · · · ·					
which it was filed, unless other	wise indicated under this item	.	the international application in the language in			
the international search v (Rule 23.1(b)).	vas carried out on the basis of a	a translation of the inte	mational application furnished to this Authority			
b. With regard to any nucleotide carried out on the basis of the	and/or amino acid sequence of sequence listing:	disclosed in the interna	tional application, the international search was			
contained in the internati	onal application in written form	m.				
filed together with the in	ternational application in comp	outer readable form.	·			
furnished subsequently to	this Authority in written form	1.				
furnished subsequently to	this Authority in computer re	adable form.				
the statement that the sub application as filed has b	sequently furnished written see een furnished.	quence listing does not	go beyond the disclosure in the international			
the statement that the info	ormation recorded in computer	readable form is ident	ical to the written sequence listing has been			
2. X Certain claims were found un	searchable (See Box 1).					
3. Unity of invention is lacking (See Box II).					
4. With regard to the title,	the text is approved as subm	itted by the applicant.				
X	the text has been established	by this Authority to re	ad as follows:			
EREMOPHILONE AND EF	EMOPHILONE DERI	VATIVES FOR I	PEST CONTROL			
5. With regard to the abstract, X	the text is approved as subm	itted by the applicant				
	the text has been established The applicant may, within or submit comments to this Aut	ne month from the date	2(b), by this Authority as it appears in Box III. of mailing of this international search report,			
6. The figure of the drawings to be pub	lished with the abstract is Figu	ire No.				
	as suggested by the applicant	t.	None of the figures			
	because the applicant failed t	to suggest a figure				
	because this figure better cha	aracterizes the inventio	n			



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Box I	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)					
This internati reasons:	onal search report has not been established in respect of certain claims under Article 17(2)(a) for the following					
1.	Claims Nos :					
	because they relate to subject matter not required to be searched by this Authority, namely:					
2. <u>X</u>	Claims Nos: Claims 1-3, 7-8, 12, 16-28,32-33, 37, 41-60, 64-65, 69, 73-79 (all partially) because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:					
	See supplementary sheet					
3.	Claims Nos :					
	because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)					
Box II	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)					
This Internation	onal Searching Authority found multiple inventions in this international application, as follows:					
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims					
	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.					
3.	As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:					
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:					
Remark on Pi	The additional search fees were accompanied by the applicant's protest.					
	No protest accompanied the payment of additional search fees.					



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Α. CLASSIFICATION OF SUBJECT MATTER Int. Cl. 7; A01N 35/02, 65/00 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EREMOPHIL?, PEST, INSECT, BIOCIDE, TERMITE, FUNGI, SUB-STRUCTURE SEARCH (BASED ON EXAMPLES) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Palombo E. et al, "Antibacterial activity of traditional Australian medicinal plants" Journal of Ethnopharmacology Vol 77 (2001) p 151-157 X (definition of pest in international application includes bacteria and viruses) 1-44, 47 Semple SJ et al, "Screening of Australian medicinal plants for antiviral activity" Journal of Ethnopharmacology" Vol 60 (1998) p 163-172 X 1-44, 47 WO 02/50053 A (US DEPARTMENT OF HEALTH AND HUMAN SERVICES) 27 June 2002. X Claims, page 2 line 22-page 3 line 15 1-3, 26-28, 58-60 $|\mathbf{x}|$ See patent family annex X Further documents are listed in the continuation of Box C Special categories of cited documents: document defining the general state of the art later document published after the international filing date or priority date which is not considered to be of particular and not in conflict with the application but cited to understand the principle relevance or theory underlying the invention "E" earlier application or patent but published on or "X" document of particular relevance; the claimed invention cannot be after the international filing date considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority document of particular relevance; the claimed invention cannot be claim(s) or which is cited to establish the considered to involve an inventive step when the document is combined publication date of another citation or other special with one or more other such documents, such combination being obvious to reason (as specified) a person skilled in the art document referring to an oral disclosure, use, document member of the same patent family exhibition or other means document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 8 OCT 2003 29 September 2003 Name and mailing address of the ISA/AU Authorized officer **AUSTRALIAN PATENT OFFICE** PO BOX 200, WODEN ACT 2606, AUSTRALIA ROSS OSBORNE E-mail address: pct@ipaustralia.gov.au Facsimile No. (02) 6285 3929 Telephone No: (02) 6283 2404



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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.			
x	US 5919552 B (MALHOTRA) 6 July 1999 Claim 8	58-76			
		38-70			
A	US 5917084 B (JIANG) 29 June 1999 Whole document	1.70			
••	Whole document	1-79			
	Reina M. et al, "Defensive chemistry of Senecio miser" J. Nat. Prod. (2001) Vol 64				
-	pages 6-11				
Α	Abstract	1-79			
<i>7</i> 0. :	WO 02/089587 A (BIOPROSPECT LTD) 14 November 2002				
P, A	Abstract	1-79			
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		,			
		•			
	•				



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Supplemental Box I

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No:

Claims 1-3, 7-8, 12, 16-28, 32-33, 37, 41-60, 64-65, 69, 73-79 (all partially) do not define the matter for which protection is sought in terms of the technical features of the invention (Rule 6.3(a)). The claims are not restricted to the technical features of the invention, these being identification of natural products with an eremophilone-like structure in oils from Eremophila species featuring certain insecticidal or pest antifeedant/repellant properties and the use of such products in pesticide compositions or on surfaces. The claims include multitudes of compounds not disclosed as being isolated or tested for approriate activities by the applicant and featuring only a loose structural relationship to the isolated compounds. Furthermore a search that covered all envisaged and claimed compounds proposed the applicant as having similar properties would be uneconomic. For these reasons the claims have only been fully searched in so far as they relate to the particular compounds isolated by the applicant and those claimed derivatives defined with cyclic ketone functionality and having the substituent at location R31 (see claim 4, formula III) limited to an alkyl based group of the type defined for R31. In terms of applications of the compounds the search has been basically restricted to wood associated pests for which there is substantial disclosure of activity, although citations for other claimed applications have been raised where the searcher is aware of them.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member				
WO	2002/50053	AU	45095/2002				
WO	2002/089587		NONE				
US	5919552		NONE				
US	5917084	AU	43258/97	wo	98/00091	US	6060509
							END OF ANNE